

# General Chemistry Result Summary Cover Sheet

**Client:** Foster Wheeler  
**Project:** Roxanna Marsh  
**SDG:** 920866B

---

## Case Narrative

---

Client FOSTER WHEELER  
Project Name ROXANNA MARSH  
Project Number 1980.0208.0100  
SDG 920866B  
Fraction WETCHEM

---

Lab Number	Sample ID	Collect Date	Rec Date	Matrix
920866-023	FW-RM-10-CS-1.7-4.0	3/20/2002	3/22/2002	SOIL
920866-024	FW-RM-10-CS-1.7-4.0MS	3/20/2002	3/22/2002	SOIL
920866-025	FW-RM-10-CS-1.7-4.0MSD	3/20/2002	3/22/2002	SOIL
920866-026	FW-RM-10-CS-0.7-1.7	3/20/2002	3/22/2002	SOIL
920866-028	FW-RM-13-CS-3.1-6.0	3/20/2002	3/22/2002	SOIL
920866-029	FW-RM-13-CS-1.0-3.1	3/20/2002	3/22/2002	SOIL
920866-030	FW-RM-20-CS-2.4-4.2	3/20/2002	3/22/2002	SOIL
920866-032	FW-RM-20-CS-4.2-6.0	3/20/2002	3/22/2002	SOIL
920866-034	FW-RM-15-CS-3.0-4.6	3/20/2002	3/22/2002	SOIL
920866-035	FW-RM-15-CS-1.2-3.0	3/20/2002	3/22/2002	SOIL
920866-037	FW-RM-12-CS-2.3-5.3	3/20/2002	3/22/2002	SOIL
920866-038	FW-RM-12-CS-1.1-1.9	3/20/2002	3/22/2002	SOIL
920866-040	FW-RM-04-CS-2.7-4.8	3/19/2002	3/22/2002	SOIL
920866-041	FW-RM-04-CS-0.5-2.7	3/19/2002	3/22/2002	SOIL
920866-042	FW-RM-05-CS-3.3-5.9	3/20/2002	3/22/2002	SOIL
920866-043	FW-RM-05-CS-0.7-3.3	3/20/2002	3/22/2002	SOIL
920866-045	FW-RM-02-CS-2.7-5.2	3/20/2002	3/22/2002	SOIL
920866-046	FW-RM-02-CS-0.8-2.7	3/20/2002	3/22/2002	SOIL
920866-047	FW-RM-19-CS-2.0-4.0	3/21/2002	3/22/2002	SOIL
920866-049	FW-RM-19-CS-0.7-2.0	3/21/2002	3/22/2002	SOIL
920866-050	FW-RM-18-CS-0.7-2.3	3/21/2002	3/22/2002	SOIL
920866-051	FW-RM-18-CS-2.3-4.3	3/21/2002	3/22/2002	SOIL
920866-070	MB3920866			SOIL
920866-071	MB3920866LCS			SOIL
920866-072	MB3920866LCSD			SOIL

---

**COVER PAGE - GENERAL CHEMISTRY ANALYSIS DATA PACKAGE**

SDG No.: 920866B

Contract: ROXANNA MARSH

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>QC Description</u>
920866-023	RM-10-CS-1.7-4.0	
920866-024	RM-10-CS-1.7-4.0MS	Matrix Spike
920866-025	RM-10-CS-1.7-4.0MSD	Matrix Spike Duplicate
920866-026	RM-10-CS-0.7-1.7	
920866-028	RM-13-CS-3.1-6.0	
920866-029	RM-13-CS-1.0-3.1	
920866-030	RM-20-CS-2.4-4.2	
920866-032	RM-20-CS-4.2-6.0	
920866-034	RM-15-CS-3.0-4.6	
920866-035	RM-15-CS-1.2-3.0	
920866-037	RM-12-CS-2.3-5.3	
920866-038	RM-12-CS-1.1-1.9	
920866-040	FW-RM-04-CS-2.7-4.8	
920866-041	FW-RM-04-CS-0.5-2.7	
920866-042	RM-05-CS-3.3-5.9	
920866-043	RM-05-CS-0.7-3.3	
920866-045	RM-02-CS-2.7-5.2	
920866-046	RM-02-CS-0.8-2.7	
920866-047	RM-19-CS-2.0-4.0	
920866-049	RM-19-CS-0.7-2.0	
920866-050	RM-18-CS-0.7-2.3	
920866-051	RM-18-CS-2.3-4.3	
920866-070	MB3920866	Method Blank
920866-071	MB3920866LCS	Laboratory Control Sample
920866-072	MB3920866LCSD	Laboratory Control Sample D
920866-064	MB1920866	Method Blank
920866-065	MB1920866LCS	Laboratory Control Sample
920866-066	MB1920866LCSD	Laboratory Control Sample D

Comments:

Signature: 

Name: Michael J Helmann

Date: 4/16/02

Title: Wet Chemistry Group Leader

**EN CHEM, INC**  
**CASE NARRATIVE - GENERAL CHEMISTRY ANALYSIS**

Lab Report Number (SDG): 920866B

Client: Foster Wheeler

Project Name: Roxanna Marsh

Project Number: 1980.0208.0100

**1. RECEIPT**

Samples were received on ice.

**2. HOLDING TIMES**

A. **Sample Preparation:** All method holding times were met.

B. **Sample Analysis:** All method holding times were met.

**3. METHOD**

**Preparation:** EPA DRAFT, SW846 9060, 9071A

**Analysis:** EPA DRAFT, SW846 9060, 9071A

**4. PREPARATION**

Sample preparation proceeded normally.

**5. ANALYSIS**

**A. Calibration:**

1. **Initial verification:** All method acceptance criteria were met.

2. **Continuing verification:** All method acceptance criteria were met.

**B. Blanks:**

1. **Initial calibration:** All method acceptance criteria were met.

2. **Continuing calibration:** All method acceptance criteria were met.

3. **Method:** All in-house acceptance criteria were met.

**C. Spikes:**

1. **Lab Control Spike (LCS):** All in-house accuracy criteria were met.

2. **Matrix Spike / Duplicate (MS/MSD):** Sample FW-RM-10-CS-1.7-4.0 was designated as the MS/MSD for Total Organic Carbon, Acid Volatile Sulfide, and Oil and Grease. All in-house accuracy and precision criteria were met.

D. **Sample Duplicates:** Duplicate sample analysis for Acid Volatile Sulfide, Oil and Grease, and Total Organic Carbon was performed on the Laboratory Control Spike. The in-house precision criteria were met.

E. **Samples:** Sample analyses proceeded normally.

**F. Dilutions:**

<u>Sample ID</u>	<u>Reason for dilution</u>
FW-RM-10-CS-1.7-4.0	Diluted to bring TOC into calibration
FW-RM-10-CS-0.7-1.7	Diluted to bring TOC into calibration
FW-RM-13-CS-3.1-6.0	Diluted to bring TOC into calibration
FW-RM-13-CS-1.0-3.1	Diluted to bring TOC into calibration
FW-RM-20-CS-2.4-4.2	Diluted to bring TOC into calibration
FW-RM-20-CS-4.2-6.0	Diluted to bring TOC into calibration
FW-RM-15-CS-3.0-4.6	Diluted to bring TOC into calibration
FW-RM-15-CS-1.2-3.0	Diluted to bring TOC into calibration
FW-RM-12-CS-2.3-5.3	Diluted to bring TOC into calibration
FW-RM-12-CS-1.1-1.9	Diluted to bring TOC and AVS into calibration
FW-RM-04-CS-2.7-4.8	Diluted to bring TOC into calibration
FW-RM-04-CS-0.5-2.7	Diluted to bring TOC and AVS into calibration
FW-RM-05-CS-3.3-5.9	Diluted to bring TOC into calibration
FW-RM-05-CS-0.7-3.3	Diluted to bring TOC and AVS into calibration
FW-RM-02-CS-2.7-5.2	Diluted to bring TOC into calibration
FW-RM-02-CS-0.8-2.7	Diluted to bring TOC into calibration

FW-RM-19-CS-2.0-4.0 Diluted to bring TOC into calibration  
FW-RM-19-CS-0.7-2.0 Diluted to bring TOC and AVS into calibration  
FW-RM-18-CS-0.7-2.3 Diluted to bring TOC and AVS into calibration  
FW-RM-18-CS-2.3-4.3 Diluted to bring TOC and AVS into calibration

G. **Reanalysis:** None required for this SDG.  
H. **Comments:** None.

I certify that this data package is in compliance with the terms and conditions agreed to by **En Chem, Inc.** and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

Signed:  Date: 4/16/02  
Name: Michael J. Helmann Position: Wet Chemistry Group Leader

**Inorganic Data Qualifiers**

- A Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- B The analyte has been detected between the method detection limit and the reporting limit.
- C Elevated detection limit due to matrix effects.
- E Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentration is greater than 50 times the IDL (100 times the IDL for analysis done on the ICP-MS). The result was flagged with the E qualifier to indicate that a physical interference was observed.
- F Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
- H(n) Analysis performed "n" days past holding time (See Sample Narrative).
- K Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
- L Elevated detection limit due to low sample volume.
- N Spiked sample recovery not within control limits.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U The analyte was not detected above the reporting limit.
- X See sample narrative.
- & Laboratory Control Spike recovery not within control limits.
- \* Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.
- 1 Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
- 2 Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria. (See Sample Narrative).
- 3 BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
- 4 BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- 5 BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- 6 BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- 7 BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.





(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Denver  
 Project Contact: Paul Moss  
 Telephone: 303-980-3519  
 Project Number: 1980.0203.0100  
 Project Name: Exams Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch



1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8827

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0802

# CHAIN OF CUSTODY

78324

Page 2 of 2

PO. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Paul Moss  
 Company: Foster Wheeler  
 Address: \_\_\_\_\_  
 Invoice To: Lake wood, CO  
 Company: FWENC  
 Address: Bothell, WA

\*Preservation Codes  
 D-HNO3 E-EnCore  
 L-Dilute  
 A=None B-HCL C-H2SO4  
 H = Sodium Bisulfate Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE):

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		Regulatory Program	Matrix Codes	ANALYSES REQUESTED	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
		DATE	TIME						
920866-013	FW-EM-03-CS-4-8-78	3-19	15:20	UST	S	Grav. Solids PCB LC/PCB PAH LO/CS TC/MS/SGA FE	4	Archive	
014	FW-EM-07-CS-5-4-76	3-19	15:40	RCRA SDWA	S		4	Archive	
015	FW-EM-07-CS-26-5-4	3-19	15:40	NPDES	S		4	Archive	
016	FW-EM-07-CS-25-2-6	3-19	15:40	CERCLA	S		4	Archive	
017	FW-EM-20-CS-0-8-24	3-20	17:30		S		4	Archive	
018	FW-EM-10-CS-4-0-5-2	3-20	15:00		S		4	Archive	

Received By:	Date/Time:	En Chem Project No.
<u>Fed Ex</u>	<u>3-21-02 12:15</u>	<u>920866</u>
<u>Fed Ex</u>	<u>3/22/02 10:30</u>	<u>3233143 601</u>
<u>Fed Ex</u>	<u>3/22/02 10:30</u>	<u>OK</u>
<u>Fed Ex</u>	<u>3/22/02 10:30</u>	<u>OK</u>

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone # \_\_\_\_\_ Fax # \_\_\_\_\_ E-Mail \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

Cooler Custody Seal  
 Present / Not Present  
 Intact / Not Intact

(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Darien  
 Project Contact: Pam Mass  
 Telephone: 303-980-3519  
 Project Number: 198010080100  
 Project Name: Roanoke Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpusch

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8827

**EN CHEM**  
 INC.

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0502

**CHAIN OF CUSTODY** 78325

\*Preservation Codes  
 D=H2SO4 C=H2SO4  
 E=EnCore F=Methanol G=NaOH  
 I=Other  
 A=None B=HCL  
 H = Sodium Bisulfate Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE)

Page 1 of 1  
 P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Pam Mass  
 Company: FWENC  
 Address: Lakeview, CO  
 Invoice To: Gary Brown  
 Company: FWENC  
 Address: Bozell, WVA

ANALYSES REQUESTED  
 (Circle Matrix Code)  
 W=Water S=Soil A=Air C=Charcoal B=Biota SI=Sludge  
 TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Codes	COLLECTION	
				DATE	TIME
920866-019	FW-EM-31-CS-3.6-5.6	UST	S	3-21	1402
020	FW-EM-01-CS-3.6-5.6	RCRA	S	3-21	1402
021	FW-EM-21-CS-7.0-9.0	SDWA	S	3-21	1402
022	FW-EM-01-CS-7.0-9.0	NPDES	S	3-21	1402
		CERCLA			

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Codes	COLLECTION		CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
				DATE	TIME		
920866-019	FW-EM-31-CS-3.6-5.6	UST	S	3-21	1402		
020	FW-EM-01-CS-3.6-5.6	RCRA	S	3-21	1402		
021	FW-EM-21-CS-7.0-9.0	SDWA	S	3-21	1402		
022	FW-EM-01-CS-7.0-9.0	NPDES	S	3-21	1402		
		CERCLA					

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-Mail \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_  
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 3-21-02 16:55  
 Relinquished By: Fed Ex Date/Time: 3/22/02 10:30  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: Fed Ex Date/Time: \_\_\_\_\_  
 Received By: Rye-Chowen Date/Time: 3/22/02 10:30  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 En Chem Project No. 920866  
 Sample Receipt Temp. 32.33  
 Sample Receipt pH 14.3  
 (Web/Metrol) OK  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact Intact

Company Name: Foster Wheeler

Branch or Location: Peoria

Project Contact: Pam Moss

Telephone: 303-950-3519

Project Number: 1950.0108.0100

Project Name: Cassava Mills

Project State: Indiana

Sampled By (Print): Gary B. Clark

1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2436  
FAX: 920-469-8927

**EN CHEM**  
INC.

# CHAIN OF CUSTODY

78326

Preservation Codes  
D=H2SO4 C=H2SO4  
E=EnCore F=Methanol G=NaOH  
I=Other

Matrix Codes  
W=Water S=Soil  
A=Air C=Charcoal  
B=Biota S=Sludge

ANALYSES REQUESTED

LABORATORY ID (Lab Use Only)  
920866-023  
-026  
027  
028  
029  
030  
031  
032

FIELD ID  
FW-011-10-CS-17-1.0  
FW-011-10-CS-07-1.7  
FW-011-13-CS-6.0-8.7  
FW-011-13-CS-3.1-6.0  
FW-011-13-CS-1.0-3.7  
FW-011-7.0-CS-2.4-4.2  
FW-011-20-CS-6.0-9.3  
FW-011-20-CS-4.2-6.0

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		Regulatory Program	Matrix Codes	MATRIX
		DATE	TIME			
920866-023	FW-011-10-CS-17-1.0	3-20	15:00	UST	W	S
-026	FW-011-10-CS-07-1.7	3-20	15:30	RCRA	S	S
027	FW-011-13-CS-6.0-8.7	3-20	14:30	SDWA	A	S
028	FW-011-13-CS-3.1-6.0	3-20	14:30	NPDES	C	S
029	FW-011-13-CS-1.0-3.7	3-20	14:30	CERCLA	B	S
030	FW-011-7.0-CS-2.4-4.2	3-20	17:30			S
031	FW-011-20-CS-6.0-9.3	3-20	17:30			S
032	FW-011-20-CS-4.2-6.0	3-20	17:10			S

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	COLLECTION TIME	Regulatory Program	Matrix Codes	MATRIX	PRESERVATION (CODE)	FILTERED? (YES/NO)	ANALYSES REQUESTED	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
4	Archive											
4	Archive											
4	Archive											
4	Archive											
4	Archive											
4	Archive											

**Rush Turnaround Time Requested (TAT) - Prelim**  
(Rush TAT subject to approval/surcharge)  
Date Needed: 3/21/02 12:20  
Relinquished By: Fed Ex  
Transmit Prelim Rush Results by (circle):  
Phone Fax E-Mail  
Phone #: 3/22/02 1030  
Fax #: 3/22/02 1030  
E-Mail Address: 3/22/02 1030

**Received By:** Fed Ex  
Date/Time: 3/21/02 12:20  
**Received By:** Ryan Chown  
Date/Time: 3/22/02 1030  
**Received By:**  
Date/Time:  
**Received By:**  
Date/Time:  
**Received By:**  
Date/Time:

En Chem Project No. 920866  
Sample Receipt Temp. 3233143 R07  
Sample Receipt # (Wet/Metal) OK  
Cooler Custody Sent Present/Not Present  
Intact/Not Intact

Company Name: Foster Wheeler  
Branch or Location: Peoria  
Project Contact: Pam Moss  
Telephone: 303-950-3519  
Project Number: 1950.0108.0100  
Project Name: Cassava Mills  
Project State: Indiana  
Sampled By (Print): Gary B. Clark

1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2436  
FAX: 920-469-8927

**EN CHEM**  
INC.

**CHAIN OF CUSTODY**  
78326

En Chem Project No. 920866  
Sample Receipt Temp. 3233143 R07  
Sample Receipt # (Wet/Metal) OK  
Cooler Custody Sent Present/Not Present  
Intact/Not Intact

(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Duron  
 Project Contact: Sam Moss  
 Telephone: 303-980-3579  
 Project Number: 1980-0208-0102  
 Project Name: Luxonville Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX: 920-469-8627

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0502

# EN CHEM INC.

## CHAIN OF CUSTODY

78314

Page 1 of 2

\*Preservation Codes  
 D-HH03 E-EnCore  
 I=Other  
 A=None B=HCl C=H2SO4  
 H=Sodium Bisulfate Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE):

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Sam Moss  
 Company: FUEEN  
 Address: Lakeview CO  
 Invoice To: Gary Brown  
 Company: FUEEN  
 Address: Bethell, WA

ANALYSES REQUESTED  
 Matrix Codes  
 W=Water S=Soil A=Air C=Charcoal B=Biota S=Sludge  
 H= Sodium Bisulfate Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE):

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		Regulatory Program	Matrix Codes	MATRIX	LAB COMMENTS (Lab Use Only)	CLIENT COMMENTS	MAIL INVOICE TO:
		DATE	TIME						
920866-033	FW-RM-15-05-46-70	3-20	08:30	UST	S	S		4	Archive
034	FW-RM-15-05-30-46	3-20	08:30	RCHA	S	S		4	Archive
035	FW-RM-15-05-12-30	3-20	08:30	SDWA	S	S		4	Archive
036	FW-RM-12-05-53-8-15	3-20	08:10	NPDES	S	S		4	Archive
037	FW-RM-12-05-23-53	3-20	08:10	CERCLA	S	S		4	Archive
038	FW-RM-12-05-11-19	3-20	08:10		S	S		4	Archive
039	FW-RM-04-05-48-69	3-15	13:10		S	S		4	Archive
040	FW-RM-04-05-27-48	3-15	13:10		S	S		4	Archive
041	FW-RM-04-05-05-27	3-15	13:10		S	S		4	Archive
042	FW-RM-05-05-33-57	3-20	13:10		S	S		4	Archive
043	FW-RM-05-05-02-53	3-20	13:10		S	S		4	Archive
044	FW-RM-05-05-59-84	3-20	13:10		S	S		4	Archive

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone # \_\_\_\_\_ Fax # \_\_\_\_\_ E-Mail \_\_\_\_\_  
 Phone # \_\_\_\_\_  
 Fax # \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

Received By: FedEx Date/Time: 3-21-01 12:36  
 Received By: Ryc Crown Date/Time: 3/22/02 1030  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No. 920866  
 Sample Receipt Temp. 3333143 ROL  
 Sample Receipt pH OK  
 Cooler Custody Sent OK  
 Presently Not Present OK  
 Intact/Not Intact OK

Samples on HOLD are subject to special pricing and release of liability



(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Denver  
 Project Contact: Paul Moss  
 Telephone: 303-980-3579  
 Project Number: 1980.0208.0102.  
 Project Name: Lexanne Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Code	COLLECTION		MATRIX
				DATE	TIME	
920866-047	Fw-RM-19-CS-20-90	UST	S	3-21-08	08:00	S
048	Fw-RM-19-CS-40-59	RCRA	S	3-21-08	08:50	S
049	Fw-RM-19-CS-07-20	SDWA	S	3-21-08	08:50	S
050	Fw-RM-18-CS-07-23	NPDES	S	3-21-08	09:00	S
051	Fw-RM-18-CS-23-93	RCRA	S	3-21-08	09:20	S
052	Fw-RM-18-CS-93-23	NPDES	S	3-21-08	11:45	S
053	Fw-RM-16-CS-07-20	UST	S	3-21-08	11:45	S
054	Fw-RM-16-CS-20-35	RCRA	S	3-21-08	11:45	S
055	Fw-RM-16-CS-53-65	NPDES	S	3-21-08	11:45	S

**Rush Turnaround Time Requested (TAT) - Prelim**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_  
 Samples on HOLD are subject to special pricing and release of liability

**CHAIN OF CUSTODY**  
 78318  
 \*Preservation Codes  
 A=None B-HCl C-H2SO4 D-HNO3 E-EnCore F-Methanol G-NaOH  
 H = Sodium Bisulfate Solution I = Dilute  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE)\*

Page 1 of 1  
 P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Paul Moss  
 Company: FWENC  
 Address: Lockwood, CO  
 Invoice To: Gary Brown  
 Company: \_\_\_\_\_  
 Address: Burbull, WI

LABORATORY ID	FIELD ID	Regulatory Program	Matrix Code	COLLECTION DATE	TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
920866-047	Fw-RM-19-CS-20-90	UST	S	3-21-08	08:00	S		
048	Fw-RM-19-CS-40-59	RCRA	S	3-21-08	08:50	S	4 Archive	
049	Fw-RM-19-CS-07-20	SDWA	S	3-21-08	08:50	S	4 Archive	
050	Fw-RM-18-CS-07-23	NPDES	S	3-21-08	09:00	S	4 Archive	
051	Fw-RM-18-CS-23-93	RCRA	S	3-21-08	09:20	S	4 Archive	
052	Fw-RM-18-CS-93-23	NPDES	S	3-21-08	11:45	S	4 Archive	
053	Fw-RM-16-CS-07-20	UST	S	3-21-08	11:45	S	4 Archive	
054	Fw-RM-16-CS-20-35	RCRA	S	3-21-08	11:45	S	4 Archive	
055	Fw-RM-16-CS-53-65	NPDES	S	3-21-08	11:45	S	4 Archive	

En Chem Project No. 920866  
 Sample Receipt Temp. 32.3/43 ROI  
 Sample Receipt # OK  
 (Wet/Metal)  
 Cooler Custody Sent Present Not Present  
 Intact Intact Not Intact

**EN CHEM INC.**  
 1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8827

**CHAIN OF CUSTODY**  
 78318  
 \*Preservation Codes  
 A=None B-HCl C-H2SO4 D-HNO3 E-EnCore F-Methanol G-NaOH  
 H = Sodium Bisulfate Solution I = Dilute  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE)\*

Page 1 of 1  
 P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Paul Moss  
 Company: FWENC  
 Address: Lockwood, CO  
 Invoice To: Gary Brown  
 Company: \_\_\_\_\_  
 Address: Burbull, WI

LABORATORY ID	FIELD ID	Regulatory Program	Matrix Code	COLLECTION DATE	TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
920866-047	Fw-RM-19-CS-20-90	UST	S	3-21-08	08:00	S		
048	Fw-RM-19-CS-40-59	RCRA	S	3-21-08	08:50	S	4 Archive	
049	Fw-RM-19-CS-07-20	SDWA	S	3-21-08	08:50	S	4 Archive	
050	Fw-RM-18-CS-07-23	NPDES	S	3-21-08	09:00	S	4 Archive	
051	Fw-RM-18-CS-23-93	RCRA	S	3-21-08	09:20	S	4 Archive	
052	Fw-RM-18-CS-93-23	NPDES	S	3-21-08	11:45	S	4 Archive	
053	Fw-RM-16-CS-07-20	UST	S	3-21-08	11:45	S	4 Archive	
054	Fw-RM-16-CS-20-35	RCRA	S	3-21-08	11:45	S	4 Archive	
055	Fw-RM-16-CS-53-65	NPDES	S	3-21-08	11:45	S	4 Archive	

En Chem Project No. 920866  
 Sample Receipt Temp. 32.3/43 ROI  
 Sample Receipt # OK  
 (Wet/Metal)  
 Cooler Custody Sent Present Not Present  
 Intact Intact Not Intact

(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Dennison  
 Project Contact: Pam Moss  
 Telephone: 303-980-3519  
 Project Number: 1980.0205.0100  
 Project Name: Knoxiana Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch



1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2438  
 FAX: 920-469-8827

525 Science Drive  
 Madison, WI 53711  
 608-232-3900  
 FAX: 608-233-0602

# CHAIN OF CUSTODY

78319

Page 1 of 1

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore G=NaOH  
 H= Sodium Bisulfate Solution I= DIBAL  
 F=Methanol  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE)

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Pam Moss  
 Company: FWEHC  
 Address: Lakeview CO  
 Invoice To: Gary Busby  
 Company: FWEHC  
 Address: Bothell, WA

ANALYSES REQUESTED  
 (List in left margin)  
 TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	COLLECTION		MATRIX
			DATE	TIME	
920866-056	FW-1M-06-CS-07-2.1	UST	3-21	17:20	S
057	FW-1M-06-CS-28-4.7	RCRA SDWA NPDES CERCLA	3-21	17:20	S
058	FW-1M-11-CS-07-2.4		3-21	10:18	S
059	FW-1M-11-CS-21-4.2		3-21	10:18	S
060	FW-1M-11-CS-4-2-6.7		3-21	10:18	S
061	FW-1M-14-CS-07-2.0		3-21	09:58	S
062	FW-1M-14-CS-20-3.8		3-21	09:58	S
063	FW-1M-14-CS-3.8-5.6		3-21	09:58	S

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	COLLECTION		MATRIX	CLIENT COMMENTS (Lab Use Only)
			DATE	TIME		
920866-056	FW-1M-06-CS-07-2.1	UST	3-21	17:20	S	4
057	FW-1M-06-CS-28-4.7	RCRA SDWA NPDES CERCLA	3-21	17:20	S	4
058	FW-1M-11-CS-07-2.4		3-21	10:18	S	4
059	FW-1M-11-CS-21-4.2		3-21	10:18	S	4
060	FW-1M-11-CS-4-2-6.7		3-21	10:18	S	4
061	FW-1M-14-CS-07-2.0		3-21	09:58	S	4
062	FW-1M-14-CS-20-3.8		3-21	09:58	S	4
063	FW-1M-14-CS-3.8-5.6		3-21	09:58	S	4

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-Mail \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_  
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 3-21-02 17:20  
 Relinquished By: FedEx Date/Time: 3/22/02 10:30  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: FedEx Date/Time: \_\_\_\_\_  
 Received By: [Signature] Date/Time: 3/22/02 10:30  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

En Chem Project No. 920866  
 Sample Receipt Temp. 33.33 H3  
 Sample Receipt pH ROT  
 (Wet/Wet) OK  
 Cooler Custody Seal [Signature] Not Present  
 Intact / Not Intact [Signature]

# En Chem, Inc. Cooler Receipt Log

Batch No. 920866

Project Name or ID Roxanna Marsh

No. of Coolers: 7 Temps: 3, 2, 3, 3, 1, 4, 3 °C

A. Receipt Phase: Date cooler was opened: 3/22/02 By: RJC

- 1: Were samples received on ice? (Must be ≤ 6 C).....  YES NO<sup>2</sup>
- 2: Was there a Temperature Blank?.....  YES NO
- 3: Were custody seals present and intact? (Record on COC).....  YES NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?.....  YES NO
- 7: Are there any short hold time tests?.....  YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 3/22/02 By: RJC

- 1: Were all sample containers listed on the COC received and intact?..... YES  NO<sup>2</sup> *broken lids - see NC NA RJC*
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC?.....  YES NO<sup>2</sup>
- 4: Check sample pH of preserved samples. (Not VOCs) Completed.....  YES NO NA
- 5: Do samples have correct chemical preservation?.....  YES NO<sup>2</sup> NA
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup>  NA
- 7: Are sample volumes adequate for tests requested?.....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm..... YES NO<sup>2</sup>  NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  YES NO NA
- 12: Start Nonconformance form.....  YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES  NO NA
- 14: Check laboratory sample number on all containers and COC. ....  YES NO NA

**Short Hold-time tests:**

48 Hours or less	7 days	Footnotes
Coliform (6 hrs)	Flashpoint	1 Notify proper lab group immediately.
Hexavalent Chromium (24 Hrs)	TSS	2 Complete nonconformance memo.
BOD	Total Solids	
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	<u>Aqueous Extractable Organics- ALL</u>	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

Reviewed by/date MAZ/05

**COVER PAGE - GENERAL CHEMISTRY ANALYSIS DATA PACKAGE**

SDG No.: 920866B

Contract: ROXANNA MARSH

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>QC Description</u>
920866-023	RM-10-CS-1.7-4.0	
920866-024	RM-10-CS-1.7-4.0MS	Matrix Spike
920866-025	RM-10-CS-1.7-4.0MSD	Matrix Spike Duplicate
920866-026	RM-10-CS-0.7-1.7	
920866-028	RM-13-CS-3.1-6.0	
920866-029	RM-13-CS-1.0-3.1	
920866-030	RM-20-CS-2.4-4.2	
920866-032	RM-20-CS-4.2-6.0	
920866-034	RM-15-CS-3.0-4.6	
920866-035	RM-15-CS-1.2-3.0	
920866-037	RM-12-CS-2.3-5.3	
920866-038	RM-12-CS-1.1-1.9	
920866-040	FW-RM-04-CS-2.7-4.8	
920866-041	FW-RM-04-CS-0.5-2.7	
920866-042	RM-05-CS-3.3-5.9	
920866-043	RM-05-CS-0.7-3.3	
920866-045	RM-02-CS-2.7-5.2	
920866-046	RM-02-CS-0.8-2.7	
920866-047	RM-19-CS-2.0-4.0	
920866-049	RM-19-CS-0.7-2.0	
920866-050	RM-18-CS-0.7-2.3	
920866-051	RM-18-CS-2.3-4.3	
920866-070	MB3920866	Method Blank
920866-071	MB3920866LCS	Laboratory Control Sample
920866-072	MB3920866LCSD	Laboratory Control Sample D
920866-064	MB1920866	Method Blank
920866-065	MB1920866LCS	Laboratory Control Sample
920866-066	MB1920866LCSD	Laboratory Control Sample D

Comments:

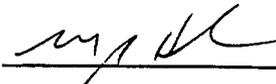
---



---



---

Signature: 

Name: Michael J Helmann

Date: 4/16/02

Title: Wet Chemistry Group Leader

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-10-CS-1.7-4.0  
Lab Sample Number : 920866-023  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/20/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 6.5	6.5	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	< 0.075	0.075	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	66.9		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	33000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	29000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	41000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	35000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	30000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-10-CS-0.7-1.7

Collection Date : 3/20/2002

Lab Sample Number : 920866-026

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 9.6	9.6	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.12	0.11	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	45.6		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	110000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	110000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	88000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	140000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	90000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-13-CS-3.1-6.0  
Lab Sample Number : 920866-028  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/20/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 7.4	7.4	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	< 0.084	0.084	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	59.2		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	58000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	46000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	53000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	71000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	62000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-13-CS-1.0-3.1

Collection Date : 3/20/2002

Lab Sample Number : 920866-029

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	26	8.9	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.11	0.10	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	49.2		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	83000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	96000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	85000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	69000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	83000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-20-CS-2.4-4.2

Collection Date : 3/20/2002

Lab Sample Number : 920866-030

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 9.3	9.3	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.32	0.11	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	46.7		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	110000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	110000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	94000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	100000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	120000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-20-CS-4.2-6.0

Collection Date : 3/20/2002

Lab Sample Number : 920866-032

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	8.9	7.9	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	< 0.091	0.091	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	55.0		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	60000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	68000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	42000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	62000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	69000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-15-CS-3.0-4.6

Collection Date : 3/20/2002

Lab Sample Number : 920866-034

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 7.6	7.6	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.12	0.088	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	60.0		%		04/02/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	26000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	30000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	21000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	24000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	30000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-15-CS-1.2-3.0

Collection Date : 3/20/2002

Lab Sample Number : 920866-035

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	10	8.3	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.16	0.096	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	52.3		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	53000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	56000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	52000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	54000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	53000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-12-CS-2.3-5.3

Collection Date : 3/20/2002

Lab Sample Number : 920866-037

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	45	8.2	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.18	0.094	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	53.3		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	65000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 1	70000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 2	83000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 3	48000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060
TOC replicate 4	57000	2000	mg/kg		04/02/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-12-CS-1.1-1.9

Collection Date : 3/20/2002

Lab Sample Number : 920866-038

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	2100	220	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	2.5	0.11	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	44.6		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	300000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	310000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	300000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	290000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	290000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-04-CS-2.7-4.8  
Lab Sample Number : 920866-040  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/19/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 5.9	5.9	mg/kg		04/02/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	< 0.069	0.069	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	72.9		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	24000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	33000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	20000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	22000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	23000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-04-CS-0.5-2.7  
Lab Sample Number : 920866-041  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/19/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	480	71	mg/kg		04/02/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.22	0.092	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	54.4		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	60000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	67000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	64000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	60000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	49000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-05-CS-3.3-5.9  
Lab Sample Number : 920866-042  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/20/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	30	8.0	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.10	0.092	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	54.4		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	22000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	19000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	21000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	26000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	22000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-05-CS-0.7-3.3

Collection Date : 3/20/2002

Lab Sample Number : 920866-043

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	610	180	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	3.1	0.090	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	55.5		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	230000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	270000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	240000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	190000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	230000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-02-CS-2.7-5.2

Collection Date : 3/20/2002

Lab Sample Number : 920866-045

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 6.8	6.8	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.11	0.078	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	64.1		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	64000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	72000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	68000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	56000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	60000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-02-CS-0.8-2.7  
Lab Sample Number : 920866-046  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/20/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	41	7.4	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.40	0.084	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	59.2		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	43000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	50000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	41000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	41000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	39000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-19-CS-2.0-4.0  
Lab Sample Number : 920866-047  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/21/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	33	9.2	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.19	0.11	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	47.2		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	89000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	90000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	100000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	79000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	88000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-19-CS-0.7-2.0

Collection Date : 3/21/2002

Lab Sample Number : 920866-049

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	320	270	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	5.2	0.14	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	36.7		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	120000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	98000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	140000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	130000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	110000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-18-CS-0.7-2.3  
Lab Sample Number : 920866-050  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 4/15/2002  
Collection Date : 3/21/2002  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	16000	2800	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	8.7	0.14	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	35.5		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	180000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	190000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	230000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	130000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	160000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/15/2002

Field ID : FW-RM-18-CS-2.3-4.3

Collection Date : 3/21/2002

Lab Sample Number : 920866-051

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

---

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Acid Volatile Sulfide	< 11	11	mg/kg		04/04/02	EPA DRAFT	EPA DRAFT
Oil & Grease, total recoverable	0.29	0.12	%		04/10/02	SW846 9071A	SW846 9071A
Solids, percent	40.7		%		04/01/02	SM 2540G M	SM 2540G M
TOC average of rep 1-4	90000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 1	98000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 2	86000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 3	99000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060
TOC replicate 4	79000	2000	mg/kg		04/03/02	SW846 9060	SW846 9060

All soil results are reported on a dry weight basis unless otherwise noted.